

**Practitioner's Docket No. 1001-159**

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of: Le Gall et al.

Application No.: 10/597,610

Group No.: Unknown

Filed: 08/01/2006

Examiner: Unknown

For: IMPROVEMENTS IN OR RELATING TO COMPOSITE MATERIALS

**Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

**INFORMATION DISCLOSURE STATEMENT**

Applicants submit this statement in accordance with their duty of disclosure under 37 CFR 1.56 and 1.97-1.98. The submission made herewith is in no way intended as an admission that the cited items constitute material prior art or otherwise would render the claims unpatentable in any way. The submission also is in no way intended to substitute for the Examiner's own independent investigation.

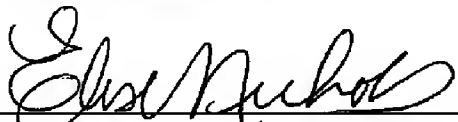
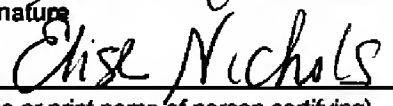
Copies of foreign patent documents and non-patent literature together with a listing on forms PTO/SB/08A and PTO/SB/08B are submitted herewith. Copies of cited U.S. patents and U.S. patent application publications have not been provided due to the waiver of the requirement under 37 CFR 1.98 (a)(2)(i). Applicants respectfully solicit the Examiner's consideration of the cited references and entry thereof into the record of this application.

---

**CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. section 1.8(a))**

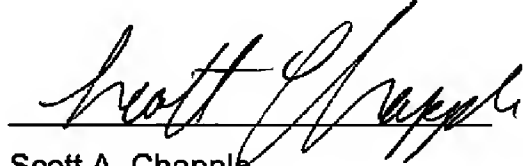
I hereby certify that, on the date shown below, this correspondence is being sent via EFS to USPTO.GOV:

Date: 3-20-07

  
\_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
(type or print name of person certifying)

This Information Disclosure Statement is being submitted prior to the mailing of a first Office Action or Notice of Allowance. No fees are believed to be due, however, if any fee is due with the filing of this paper please charge the amount to deposit account 50-1097.

Date: 6 February 2007

A handwritten signature in black ink, appearing to read "Scott A. Chapple", written over a horizontal line.

Scott A. Chapple  
Registration No. 46,287  
Dobrusin & Thennisch PC  
29 W. Lawrence Street  
Suite 210  
Pontiac, MI 48342  
(248) 292-2920  
Customer No. 25215

<b>INFORMATION DISCLOSURE STATEMENT BY THE APPLICANT</b>			Serial No.:	10/597,610
			Filing Date:	8/1/2006
			First Inventor:	Le Gall et al.
			Art Unit:	Unknown
			Examiner:	Unknown
			Attorney Docket Number:	1001.159
Examiner's Signature	/Camie Thompson/		Date Considered	09/10/2010
Examiner's Initials	Document Number	Publication Date MM-DD-YYYY	Name of Inventor or Author	
/CT/	5,985,435	11/16/1999	Czaplicki et al.	
	6,372,334	4/16/2002	Wycech	
	6,455,146	9/24/2002	Fitzgerald	
	H2047 H	9/3/2002	Harrison et al.	
	6,482,496	11/19/2002	Wycech	
	6,855,652	2/15/2005	Hable et al.	
	2005/0102815	5/19/2005	Larsen	
	2005/0166532	8/4/2005	Barz	
	2005/0172486	8/11/2005	Carlson et al.	
	2006/0000186	1/5/2006	Carlson et al.	
	2004/0084141	5/6/2004	Czaplicki	
	2003/0039792	2/27/2003	Hable et al.	
	2003/0176128	9/18/2003	Czaplicki et al.	
	2003/0183317	10/2/2003	Czaplicki et al.	
	2004/0076831	4/22/2004	Hable et al.	
	7,141,194	11/28/2006	Beckmann	
	3,649,375	10/14/1972	Venkatesan	
	3,868,796	3/4/1975	Bush	
	5,707,098	1/13/1998	Uchida	
	5,902,656	5/11/1999	Hwang	
	6,139,094	10/31/2000	Teply et al.	
	6,454,974	9/24/2002	Wilson	
	5,474,721	12/12/1995	Stevens	
	5,892,187	4/6/1999	Patrick	
	6,309,985	10/30/2001	Vimelson et al.	
	4,803,105	2/7/1989	Kretow et al.	
	5,858,521	1/12/1999	Okuda et al.	
	4,476,183	10/9/1984	Holtrop et al.	
	6,444,713	9/3/2002	Pachl et al.	
	4,707,397	11/17/1987	Morimura et al.	
	6,790,520	9/14/2004	Todd et al.	
	6,607,831	8/19/2003	Ho et al.	

[illegible]

**INFORMATION DISCLOSURE  
STATEMENT BY THE APPLICANT**

Serial No.:	10/597,610
Filing Date:	8/1/2006
First Inventor:	Le Gall et al.
Art Unit:	Unknown
Examiner:	Unknown
Attorney Docket Number:	1001.159

Examiner's Signature	/Camie Thompson/		Date Considered	09/10/2010
Examiner's Initials	Document Number	Publication Date MM-DD-YYYY	Name of Inventor or Author	
/CT/	WO99/08854	2/25/1999	Henkel	
	WO99/50057	10/7/1999	Henkel	
	WO00/46461	8/10/2000	Sika	
	GB 2 061 196	5/13/1981		
	EP 0 061 131	09/29/1982		
	WO89/06595	07/27/1989		
	JP 02 206 537	08/16/1990		
	DE 90 11 147.8	9/24/1990		
	JP 5-38992	2/19/1993		
	DE 93 20 333.0			
	EP 0 679 501	11/10/1995		
	EP 0 697 956 B1	2/28/1996		
	WO99/61281	12/2/1999		
	WO00/38863	7/6/2000		
	EP 1 072 647 A2	1/31/2001		
	WO01/10682	2/15/2001	Volkswagen	
	WO00/10802	3/2/2000	H.R. Technologies	
	EP 1 366 960 A1	12/3/2003	Hexcel	
	DE 42 26 988 A1	2/17/1994	Schmucker	
	EP 0 360 214 A2	3/28/1990	Nitto	
	EP 1 046 666 A1	10/25/2000	Hexcel Corporation	
	EP 1 134 314 B1	9/8/2004	Hexcel Corporation	
	EP 0 819 723 A1	1/21/1998	Toray Industries	
	EP 0 703 931 B1	10/1/2003	3M	
	EP 1 182 087	2/27/2002	Nissan	
	EP 1 351 787 B1	3/9/2005	Daimler Chrysler	
	EP 1 299 497	12/15/2004	Dow	
	WO05/044630	5/19/2005	Dow	
	WO04/067304	8/12/2004	Dow	
	WO05/080524	9/1/2005	Sika	
	EP 1 577 190	9/21/2005	FIAT	
	EP 1 471 105	10/27/2004	3M	



<b>INFORMATION DISCLOSURE STATEMENT BY THE APPLICANT</b>		Serial No.:	10/597,610
		Filing Date:	8/1/2006
		First Inventor:	Le Gall et al.
		Art Unit:	Unknown
		Examiner:	Unknown
		Attorney Docket Number:	1001.159
Examiner's Signature	/Camie Thompson/	Date Considered	09/10/2010
Examiner's Initials	Non-Patent Literature		
/CT/	HOPTON et al., Application of a Structural Reinforcing Material to Improve Vehicle NVH Characteristics.		
	LILLEY et al., A Comparison of NVH Treatments for Vehicle Floorplan Applications.		
	Copinging Patent Application Serial No. 10/718,509 filed November 20, 2003. (1001.026RE)		
	Copinging Patent Application Serial No. GB 0220945.0 filed September 10, 2002. (1001.099GB)		
	Copinging Patent Application Serial No. EP 0300159.1 filed January 6, 2003. (1001.098EP)		
	Copinging Patent Application Serial No. 11/188,679 filed July 25, 2005. (1001.126)		
	Copinging Patent Application Serial No. 11/189,190 filed July 26, 2005. (1001.172)		
	Copinging Patent Application Serial No. 11/254,129, filed October 19, 2005. (1001.238)		
	Copinging Patent Application Serial No. 60/753,973, filed December 23, 2005. (1001.248P1)		
	Copinging Patent Application Serial No. 11/339,431, filed January 25, 2006. (1001.073c1)		
	Copinging Patent Application Serial No. 11/390,658, filed March 28, 2006. (1001.208)		
	Copinging Patent Application Serial No. 11/391,884, filed March 29, 2006. (1001.215)		
	Copinging Patent Application Serial No. 11/393,535, filed March 30, 2006. (1001.207)		
	Copinging Patent Application Serial No. 11/393,431, filed March 30, 2006. (1001.216)		
	Copinging Patent Application Serial No. 11/401,207, filed April 10, 2006. (1001.210)		
↓	Copinging Patent Application Serial No. 11/381,769, filed May 5, 2006. (1001.206)		

<b>INFORMATION DISCLOSURE STATEMENT BY THE APPLICANT</b>		Serial No.:	10/597,610
		Filing Date:	8/1/2006
		First Inventor:	Le Gall et al.
		Art Unit:	Unknown
		Examiner:	Unknown
		Attorney Docket Number:	1001.159
Examiner's Signature	/Camie Thompson/	Date Considered	09/10/2010
Examiner's Initials	Non-Patent Literature		
/CT/	Copending Patent Application Serial No. 60/746,810, filed May 9, 2006. (1001.257p1)		
/CT/	Copending Patent Application Serial No. 60/747,677, filed May 19, 2006. (1001.232p1)		
/CT/	Copending Patent Application Serial No. 60/804,117, filed June 7, 2006. (1001.259p1)		
/CT/	Copending Patent Application Serial No. 11/422,705, filed June 7, 2006. (1001.213)		
/CT/	Copending Patent Application Serial No. 60/820,295, filed July 25, 2006. (1001.251p1)		
/CT/	Oshima et al., Expandable Epoxy Resin Compositions and Manufacture of Their Intermediate Moldings and Cellular composite Materials. Patent No. JP 04266940 September 22, 1992. (Abstract)		
/CT/	Yamamoto et al., Intermediates for Lightweight Fiber-Reinforced Composites with Porous Core and Their Manufacture. Patent No. JP 04158026 June 1, 1992. (Abstract)		
/CT/	Kagoshima et al., Foamable Epoxy Resin Compositions. Patent No. EP 500009 August 26, 1992. (Abstract)		
/CT/	Adachi Shin Sanyo KK, Foamed Seals. Patent No. JP 59133280 July 31, 1984. (Abstract)		
/CT/	Aisin Seiki Co., Ltd., Foamed Epoxy Resin-Metal Sandwich Panels. Patent No. JP 58049223 March 23, 1983. (Abstract)		
/CT/	Sato et al., Porous Epoxy Resin Materials, Patent No. JP 45016588 June 9, 1960. (Abstract)		
/CT/	Farbwerke Hoechst A.G., Epoxy Resin Foams, Patent No. FR 2009512 February 6, 1970. (Abstract)		
/CT/	Kyo et al., Study on Isothermic Sampling from the Deep Sea (Part 1) Thermal Insulation Characteristics of Composite Materials Effective Under High Hydrostatic Pressure. Sen'i Gakkaishi 1994. (Abstract)		
/CT/	Invitation to Pay Additional Fees dated June 10, 2005. PCT/EP2005/001056 (1001.159WO)		



<b>INFORMATION DISCLOSURE STATEMENT BY THE APPLICANT</b>		Serial No.:	10/597,610
		Filing Date:	8/1/2006
		First Inventor:	Le Gall et al.
		Art Unit:	Unknown
		Examiner:	Unknown
		Attorney Docket Number:	1001.159
Examiner's Signature	/Camie Thompson/	Date Considered	09/10/2010
Examiner's Initials	Non-Patent Literature		
/CT/	International Search Report and Written Opinion dated September 23, 2005. PCT/EP2005/001056 (1001.159WO)		
/CT/	UK Search Report dated June 30, 2004. Application No. GB0402221.6 (1001.159GB)		
/CT/	Venkatraman, Investigations on the Role of Foam Layers in the Failure of Glass-Epoxy Composite Subjected to Repeated Impacts, Journal of Reinforced Plastics and Composites(1998), 17(8), 741-751. (Abstracted		
/CT/	Venkatraman, Impact Studies in Glass Epoxy Laminates Containing Foam, Journal of Reinforced Plastic and Composites (1997), 16(7), 618-630. (Abstract)		
/CT/	Krzysztof et al., Fatigue Behavior of Composites with Foamed Matrix, Journal of Reinforced Plastics and Composites (1994), 13(12), 1116-34. (Abstract)		
/CT/	Burton et al., Use of Foamed-in-Place Epoxy Resins in Aircraft Composite Structures, Journal of Cellular Plastics (1971), 7(3), 140-5. (Abstract)		
/CT/	Rogers Corp. USA, Epoxy Foam, Patent No. US 4,546,118 October 8, 1985 (Abstract)		